Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

HR\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Subject\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Class Work: Tables and Equations**

**Directions:** Use the chart to create an equation that would work for each table.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **X** | 10 | 15 | 21 | 30 | | **Y** | 2 | 7 | 13 | 22 |   **Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  *Check to make sure your rule works for EVERY value in the chart!* | 2.   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | **In** | **Out** | | 3 | 10 | | 6 | 13 | | 2 | 9 | | 9 | 16 | | **Equation:**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | |
| 3.   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | **In** | **Out** | | 3 | 5 | | 7 | 13 | | 11 | 21 | | 9 | 17 | | **Equation:**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | 4.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **X** | 3 | 6 | 7 | 2 | | **Y** | 12 | 24 | 28 | 8 |   **Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

**Directions:** Choose the best answer choice for each multiple choice question.

1. Sean made the input-output table shown below.

|  |  |
| --- | --- |
| Input(*x*) | Output(*y*) |
| 3 | 8 |
| 4 | 10 |
| 5 | 12 |
| 6 | 14 |

Which of the following equations is true for all values in Sean’s input-output table?

1. *x* + 5 = *y*
2. *x* + 6 = *y*
3. 2*x* + 2 = *y*
4. 3*x* – 1 = *y*
5. The cost for labor at a car repair center is shown in the table below.

**Car Repair Costs**

|  |  |
| --- | --- |
| **Hours** | **Total Cost** |
| 1 | $  60 |
| 2 | $120 |
| 3 | $180 |
| 4 | $240 |

Based on the data in the table, which of the following equations represents the total cost, in dollars

of a repair that requires *h* hours of labor?

1. *h* + 60 = *total cost*
2. *h* – 60 = *total cost*
3. *h* x 60 = *total cost*
4. *h* ÷ 60 = *total cost*
5. Bridge created the input-output table shown below.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Input | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Output | 4 | 6 | 8 | 10 | 12 | 14 | 16 |

Which of the following rules is true for all values in Bridget’s table?

1. Input + 3 = Output
2. Input x 3 = Output
3. (Input x 2) + 1 = Output
4. (Input x 2) + 2 = Output